Quick Start Guide

Welcome to the Avegene ePipette!

Use this guide to:

- Review parts of the pipettor
- Install the battery and charging
- Operate the pipettor
- Care and Support

Avegene ePipette

S20
S200
S1000

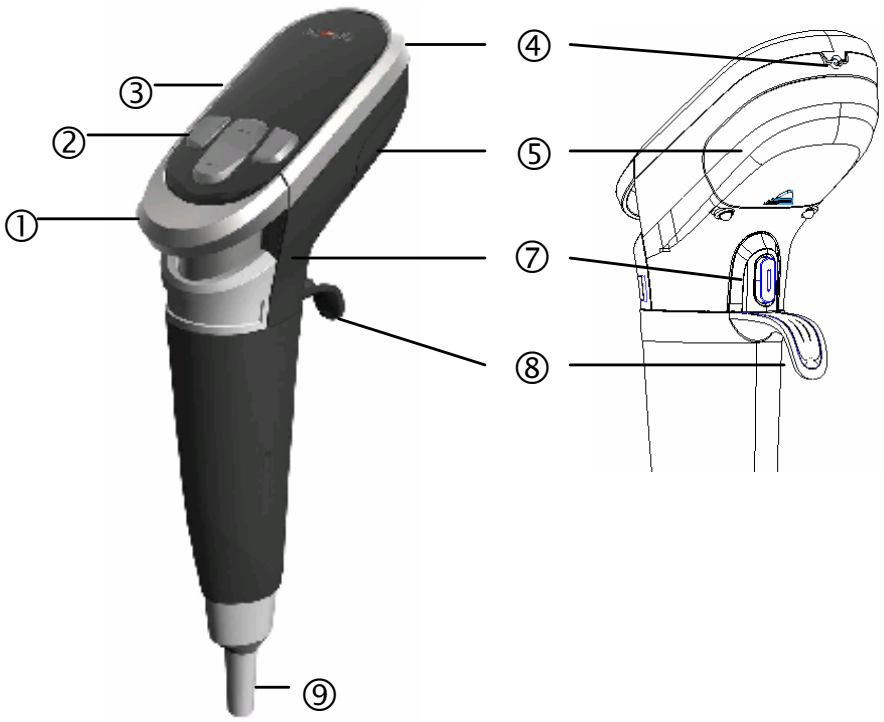
❶ Check it out

All Avegene ePipette packages contain:

- Pipettor
- Battery pack
- Quick start guide and User Manual
- Performance certification

A. Pipettor Description

① Tip ejector
② Keypad
③ Display
④ AC IN socket
⑤ Battery pack
⑥ Start button
⑦ Finger hook
⑧ Tip ejector collar



B. Display and keypad

① Mode range
② Speed
③ Aspirating/Dispensing direction
④ Piston position
⑤ Options
⑥ Volume and units
⑦ Aliquots/Counter

Appears during **DIS** procedure

❷ Install the battery and charging

- Charge up the battery at least 8 hours before operating the device for the first time.

Install the battery

1. With the back of the pipettor facing you, remove the battery cover.（fig.2.1）
2. Slide the battery into the slot, gold-colored contact side first.（fig.2.2）
3. Slide and lock the back cover into place.（fig.2.3）

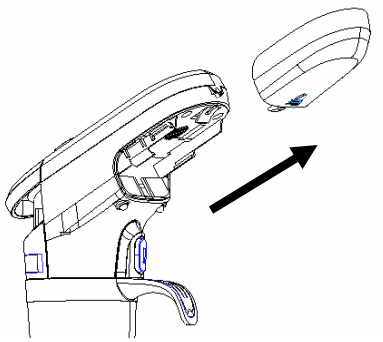


Fig. 2.1

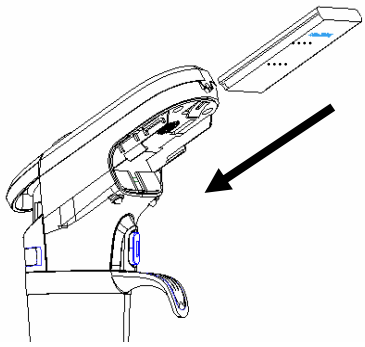


Fig. 2.2

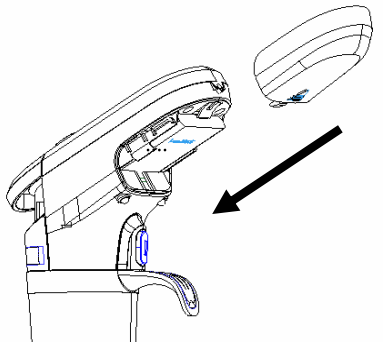


Fig. 2.3

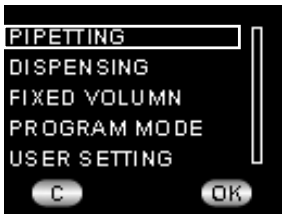
Charge the battery

1. Plug the ePipette charger into a standard AC wall outlet.
2. Connect the charger cable to the bottom of the ePipette. It takes two hours to fully charge the battery.
3. （ ）appears for a few seconds when you switch on.
4. （ ）flashes in the up right corner of the display when the battery is low.

❸ Basic Operations

Pipetting in the standard mode

Tip: The standard mode is recommended for rapid series pipetting with aqueous solutions.



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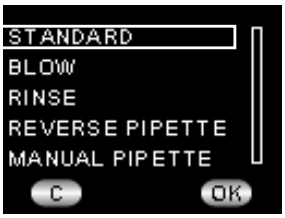

3

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1 Press to select the mode **PIP**.

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2 Press downward or upward to select the desired volume.
* When holding down, the volume display starts to scroll faster.

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3 Press the Option key to select **STD**.

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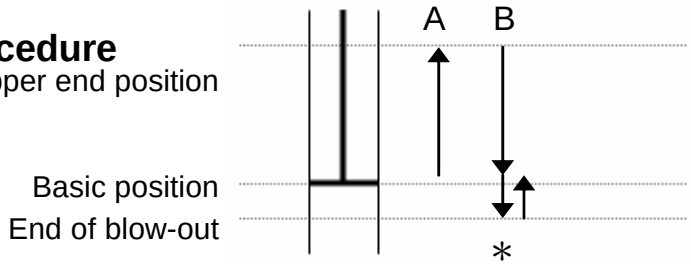
4 Press Start button to trigger all piston movements.
* Blow-out is executed automatically when liquid is dispensed.

Procedure



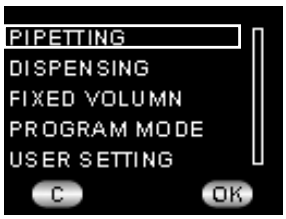
* Before releasing Start button, remove the pipette tip from the solution to prevent any solution from being aspired unintentionally.

Note: There are 6 speeds available for aspirating/dispensing. The default speed is 3 for all operating modes.

❸ Basic Operations（continued）

Pipetting with separate blow-out（BLO）

Tip: BLO is recommended for use with liquids which easily create foam on agitation and/or aeration. (e.g. Solutions containing protein)



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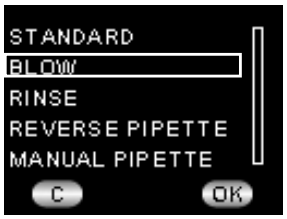
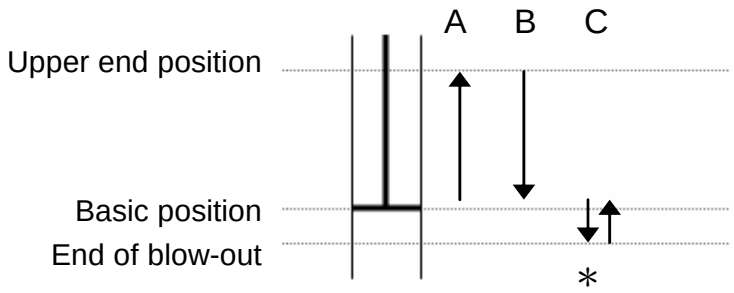


3

1		Press to select the mode **PIP**.
2		Press downward or upward to select the desired volume. * When holding down, the volume display starts to scroll faster.
3		Press the Option key to select **BLO**.
4		Press Start button to trigger all piston movements. * The residual liquid is dispensed by pressing the Start button separately.

Procedure

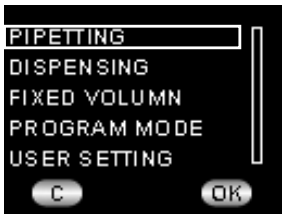


* Before releasing Start button, remove the pipette tip from the solution to prevent any solution from being aspired unintentionally.

❸ Basic Operations（continued）

Pipetting with separate rinsing（RIN）

Tip: RIN can be used for mixing the dispensing volume and the specimen liquid when large volumes are used.



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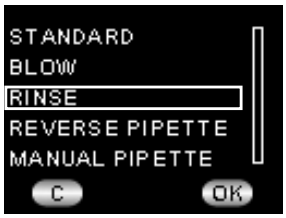
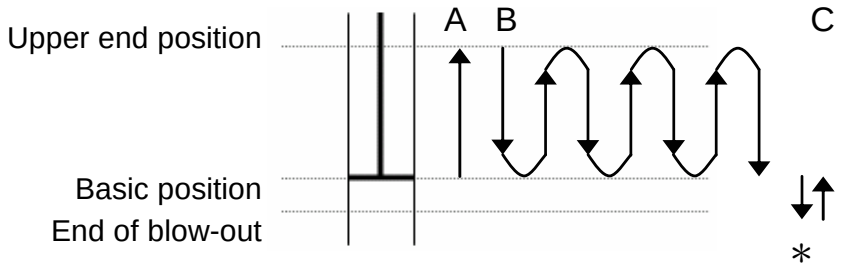


3

1		Press to select the mode **PIP**.
2		Press downward or upward to select the desired volume. * When holding down, the volume display starts to scroll faster.
3		Press the Option key to select **RIN**.
4		Press Start button to trigger all piston movements. * Rinsing takes place 3 times after liquid has been dispensed and the Start button is released.

Procedure

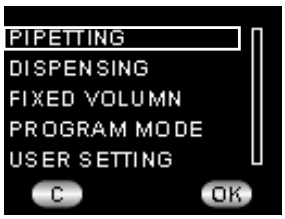


＊ Before releasing Start button, remove the pipette tip from the solution to prevent any solution from being aspired unintentionally.

❸ Basic Operations（continued）

Reverse Pipetting（REV）

Tip: REV is recommended for solutions with a high viscosity. Slightly more liquid is aspirated than is necessary for the sum of the dispensing steps.



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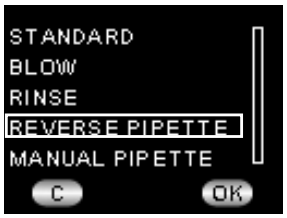
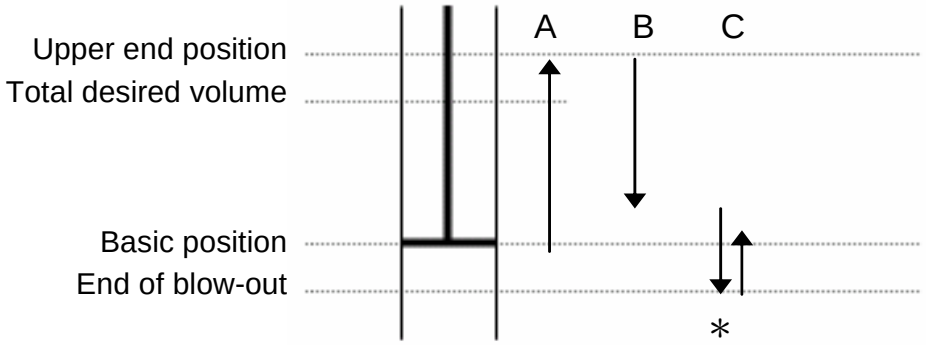


3

1		Press to select the mode **PIP**.
2		Press downward or upward to select the desired volume. * When holding down, the volume display starts to scroll faster.
3		Press the Option key to select **REV**.
4		Press Start button" to trigger all piston movements. * Blow-out is discarded.

Procedure

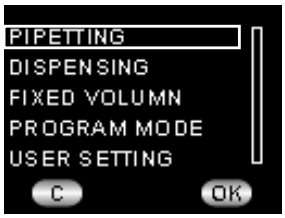


* Before releasing Start button, remove the pipette tip from the solution to prevent any solution from being aspired unintentionally.

❸ Basic Operations（continued）

Pipetting with the manual option（MAN）

Tip: Setting lower speeds is recommended.



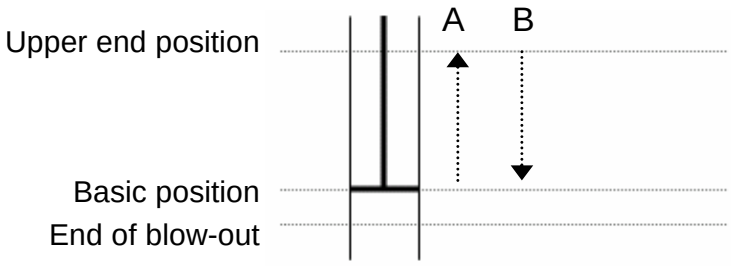
1

2

3

1		Press to select the mode **PIP**.
2		Press downward or upward to select the desired volume.
3		Press the Option key to select **MAN**
4		Press Start button to confirm the selection
5		Press upward to aspirate samples.
6		Press downward to dispense samples.
7		Press Start button to leave **MAN** * The **MAN** option is the equivalent with a mechanical piston-stroke pipette.

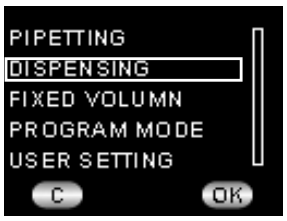
Procedure



❸ Basic Operations（continued）

Dispensing（DIS）

The aspirated liquid is dispensed in defined partial steps.

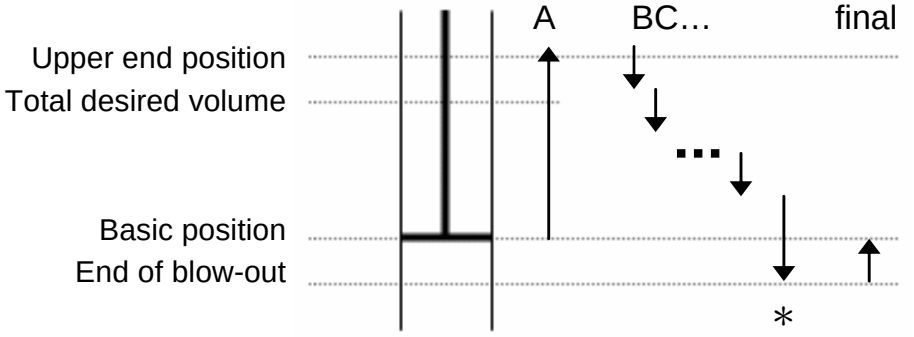


1

2

1		Press to select the mode **DIS**.
2		Press to select the desired volume per dispensing step. * When holding down, the volume display starts to scroll faster. * In the right side: max. dispensing steps per filling of the pipette tip. (here 5 steps; 1,000µL pipette)
3		If necessary, press Option key to decrease the dispensing steps.
4		Press Start button" to trigger all piston movements. * Slightly more liquid is aspirated than is necessary for the sum of the dispensing steps.

Procedure

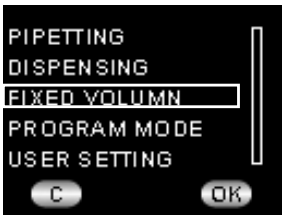


＊: Before releasing the Stat button, remove the pipette tip from the solution to prevent any solution from being aspirated unintentionally.

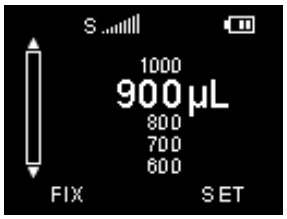
❸ Basic Operations（continued）

Pipetting with a preselected fixed volume（FIX）

Tip: FIX is used to rapidly set five frequently used pipetting volumes.



1



2

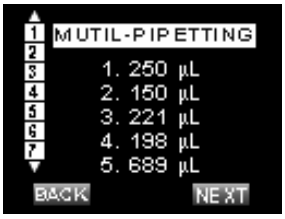
3

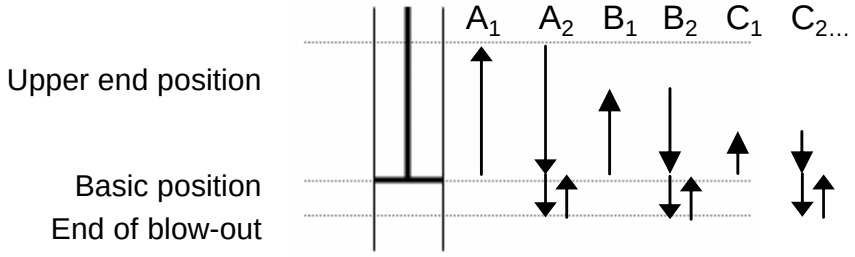
1		Press to select the mode **FIX**.
2		Press downward or upward to select the **FIX** volume. * Five **FIX** volumes are predefined in the pipette.
3		Press the Option key until the desired option appears. (Options: **STD**, **BLO**, **RIN**, **REV, VOLUME SETTING***)
4		Press Start button to trigger all piston movements. **Procedure** The procedure depends on the “Option” selected. Information on the procedure according to the Option selected is contained in page 3-6.

❹ Program Operations

Mutil-Pipetting

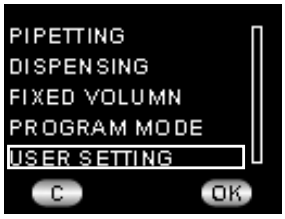
Tip: The Mutil-pipetting is recommended for sequence series pipetting with aqueous solutions.

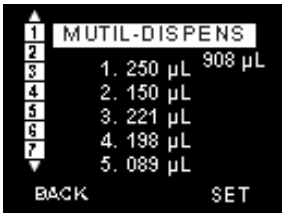


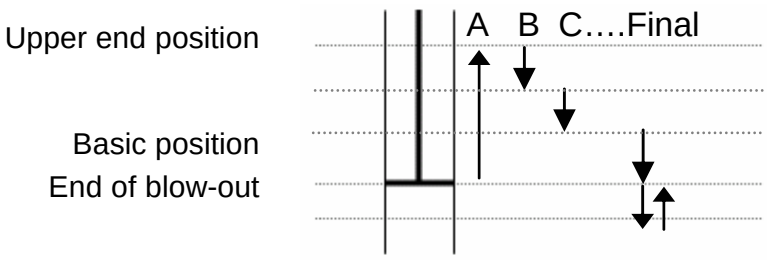


Mutil-Dispensing

Tip: The Mutil-Dispensing is recommended for different volume dispensing with aqueous solutions.



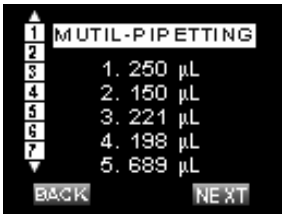


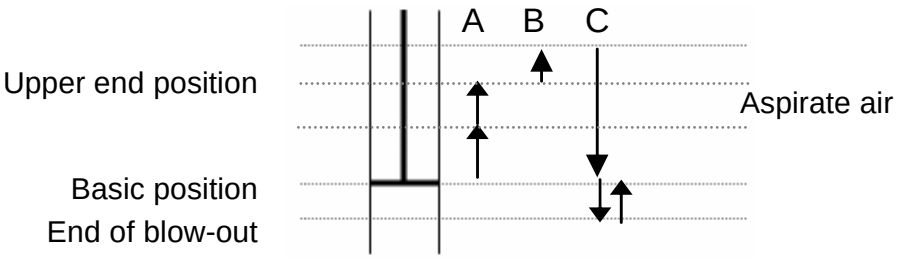


❹ Program Operations (continue)

Diluting

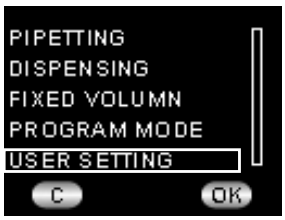
Tip: The Diluting is recommended for dilute more then two solution mixing with aqueous solutions.

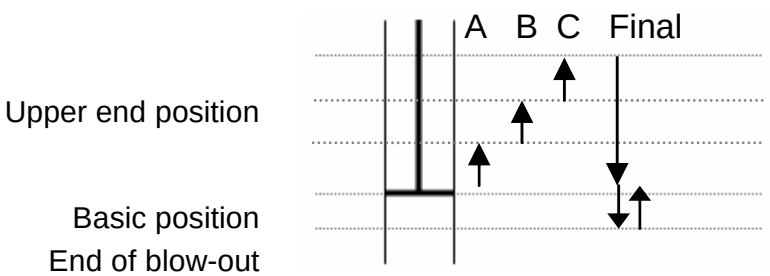




Mutil-Aspirating

Tip: The Mutil-Aspirating is recommended for aspirate with aqueous solutions until the series complete, then discard the full aspirating solution in one step.





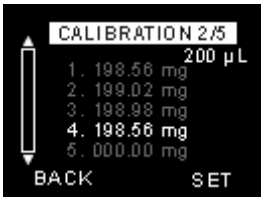
❺ User Settings Operations

Calibration Mode

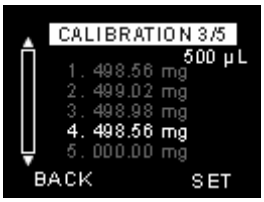
Tip: The Calibration Mode is recommended for calibration ePipette when maintain or calibration.

1. Entry the test conditions:temperature, air pressure and relative humidity.

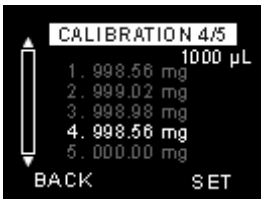
2. Entry 6 or 10 times the weights of 200 μl ddwater by Excellence microbalances.



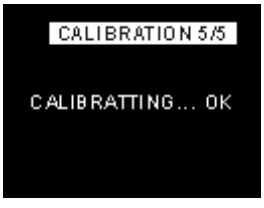
3. Entry 6 or 10 times the weights of 500 μl ddwater by Excellence microbalances.



4. Entry 6 or 10 times the weights of 1000 μl ddwater by Excellence microbalances.



5. Calibration Mode will auto calibrate the ePipette.



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❺ User Settings Operations

Master Reset, Master Clear, Greeting

1. Master Reset is for reset all setting return to the original setting. After please do Calibration mode to calibrate ePipette.

2. Master Clear is for clear Program Mode setting. ePipette calibrate is unnecessary.

3. Greeting is for user to into your own slogan to show in the beginning screen.

*

❻ Care and Support

Care and maintenance

1. Do not allow any liquid to enter the pipettor.
2. Do not clean the display or any labeling using acetone or aggressive solutions.
3. Use original spare parts and accessories.（battery, adapter, etc.）
4. Repairs may be carried out by authorized personnel.

Avegene Support on the web

Check http://www.avegene.com/literture.htm for the latest information and to help you get more for your new product.

We have the right solutions to meet your needs. To learn more about other great features of your pipettor, as well as important safety and operating information, please review the **User Guide** or visit www.avegene.com.

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